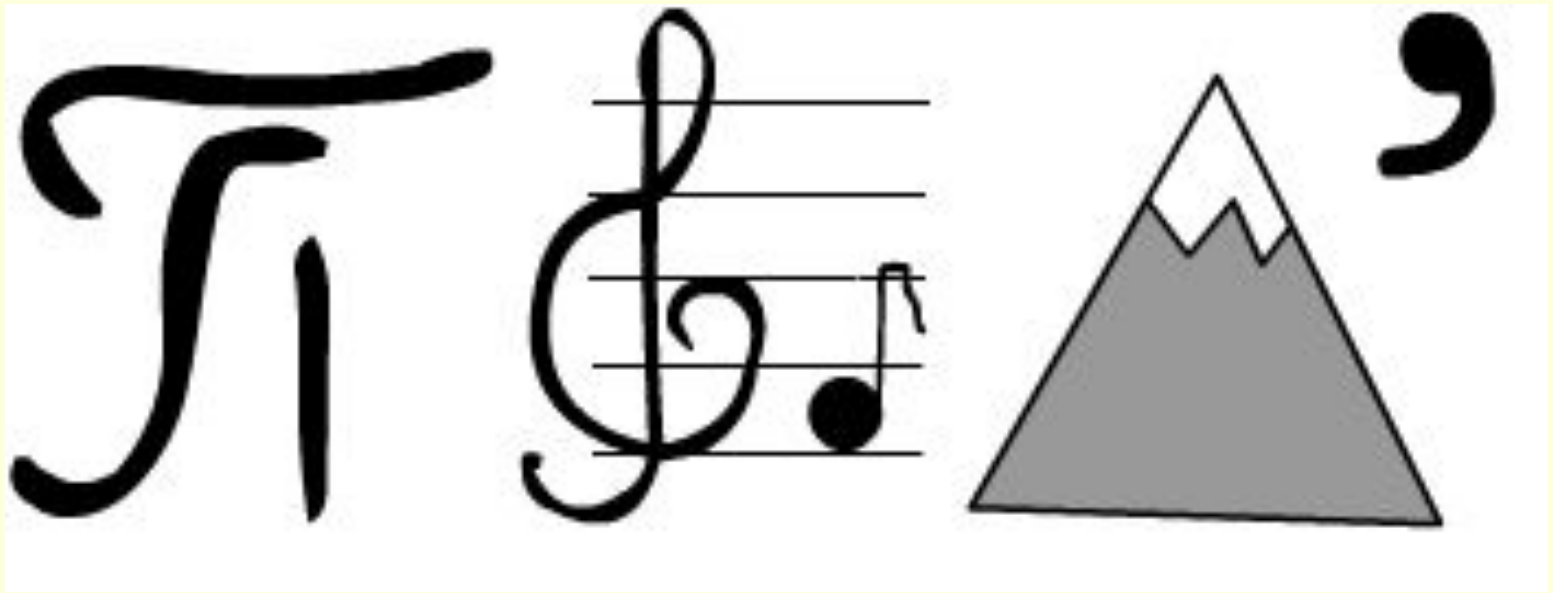


Гимназия №148 имени Сервантеса

Урок геометрии

8 класс

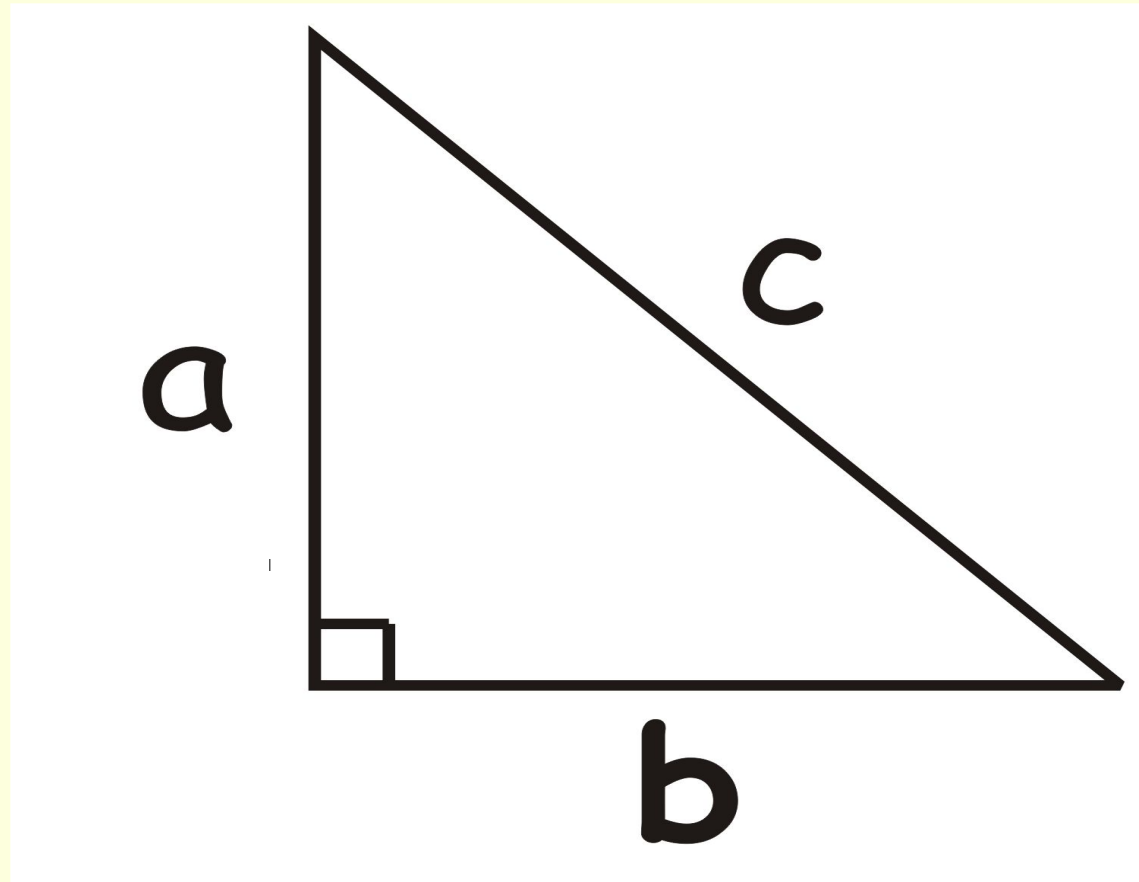
Учитель: Кондратова М.В.



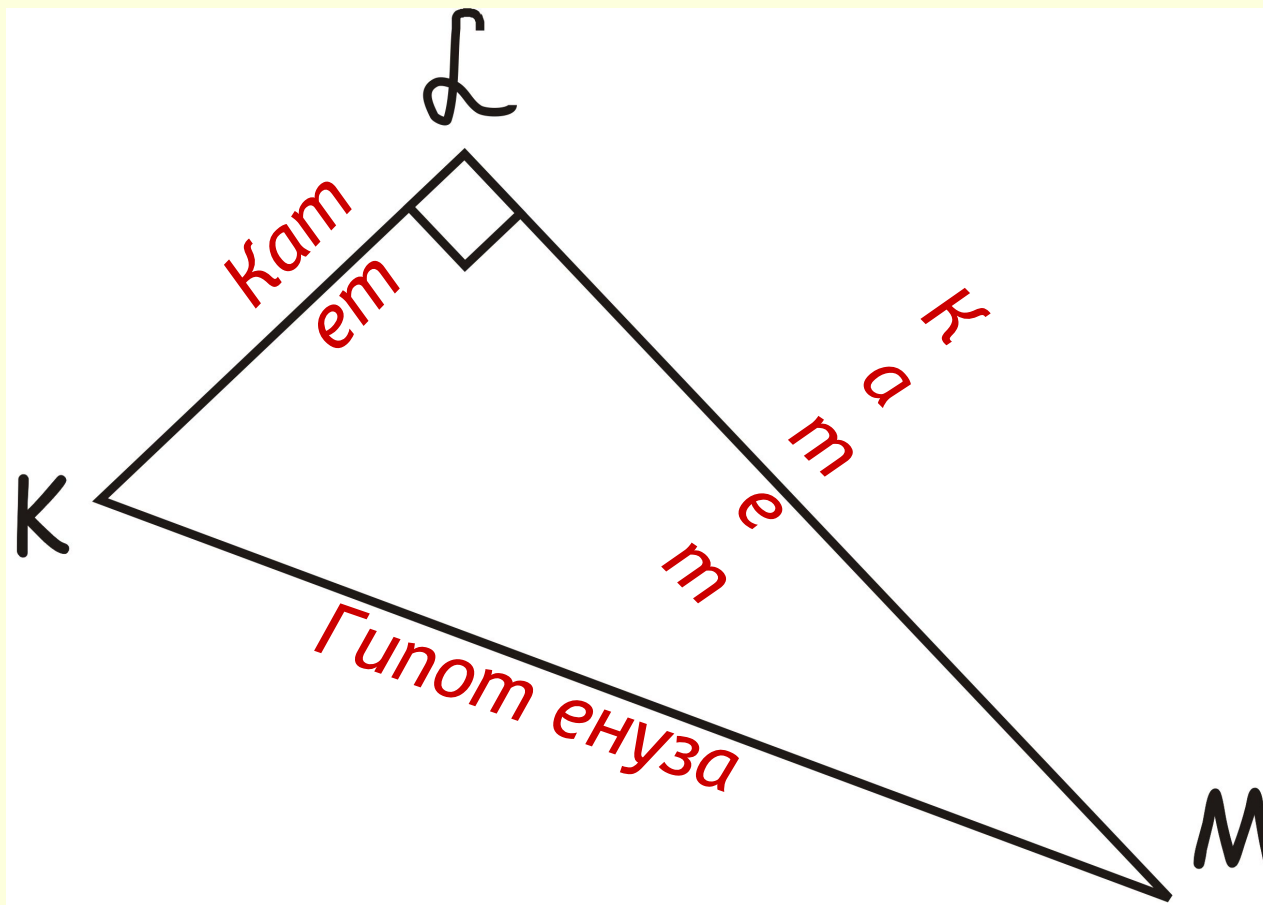
Пифагор

Пифагор

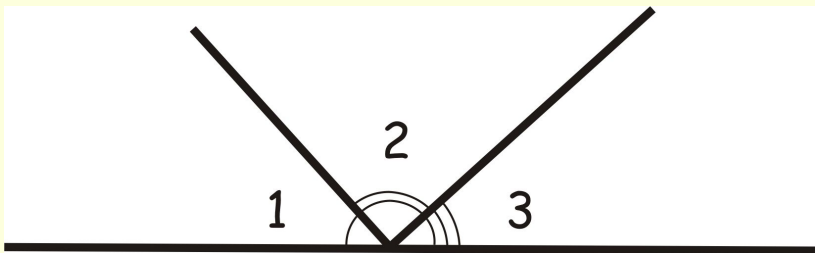




$$c^2 = a^2 + b^2$$



Прямоугольный треугольник



$$\angle 1 + \angle 3 = \angle 2$$

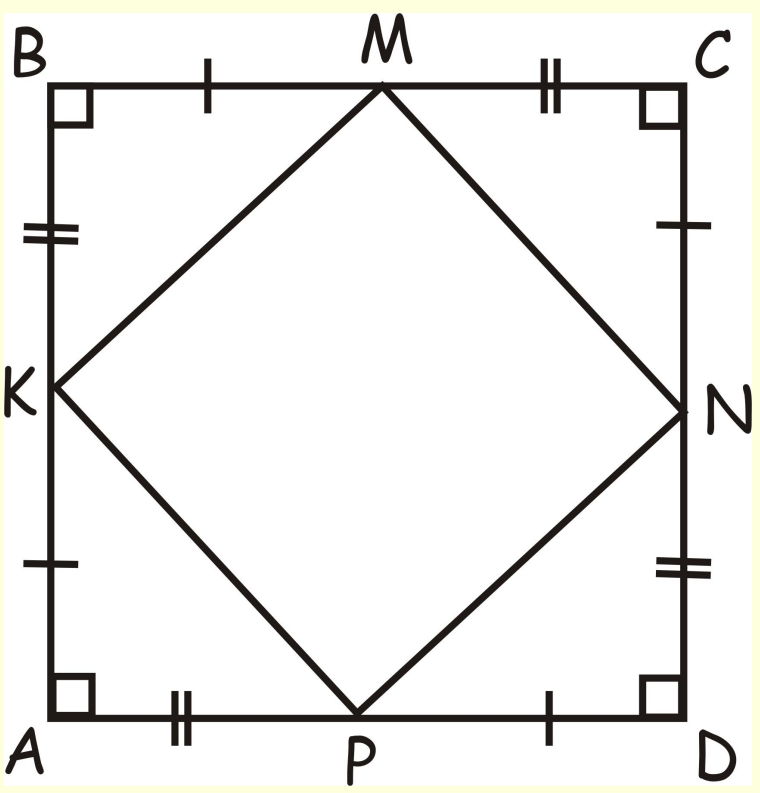
$$\angle 2 = ?$$

$$\angle 1 + \angle 2 + \angle 3 = 180^\circ$$

$$\angle 1 + \angle 3 = \angle 2$$

$$\angle 2 + \angle 2 = 180^\circ$$

$$\angle 2 = 90^\circ$$



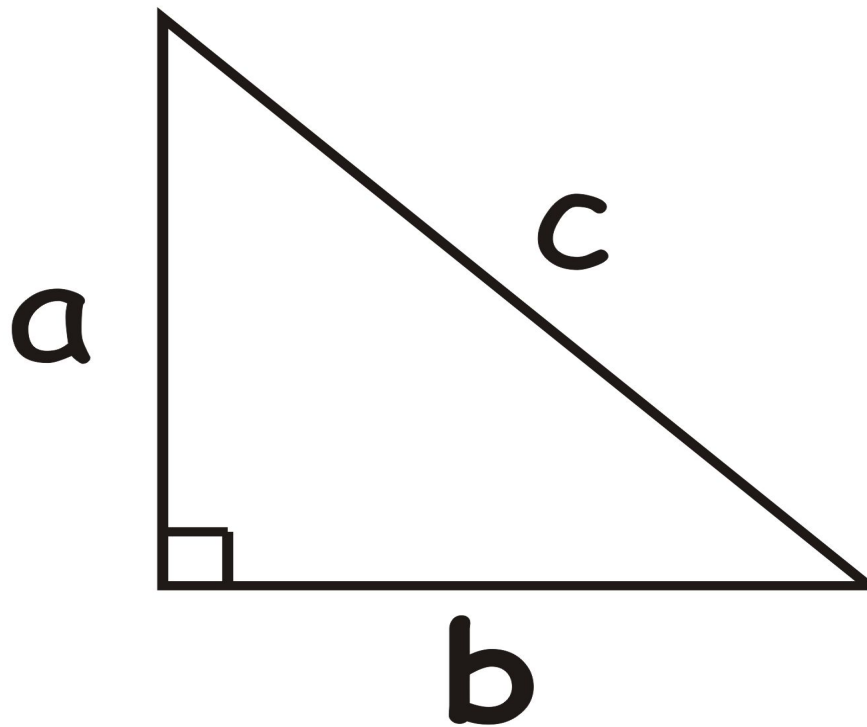
KMNP - параллелограмм

KMNP - ромб

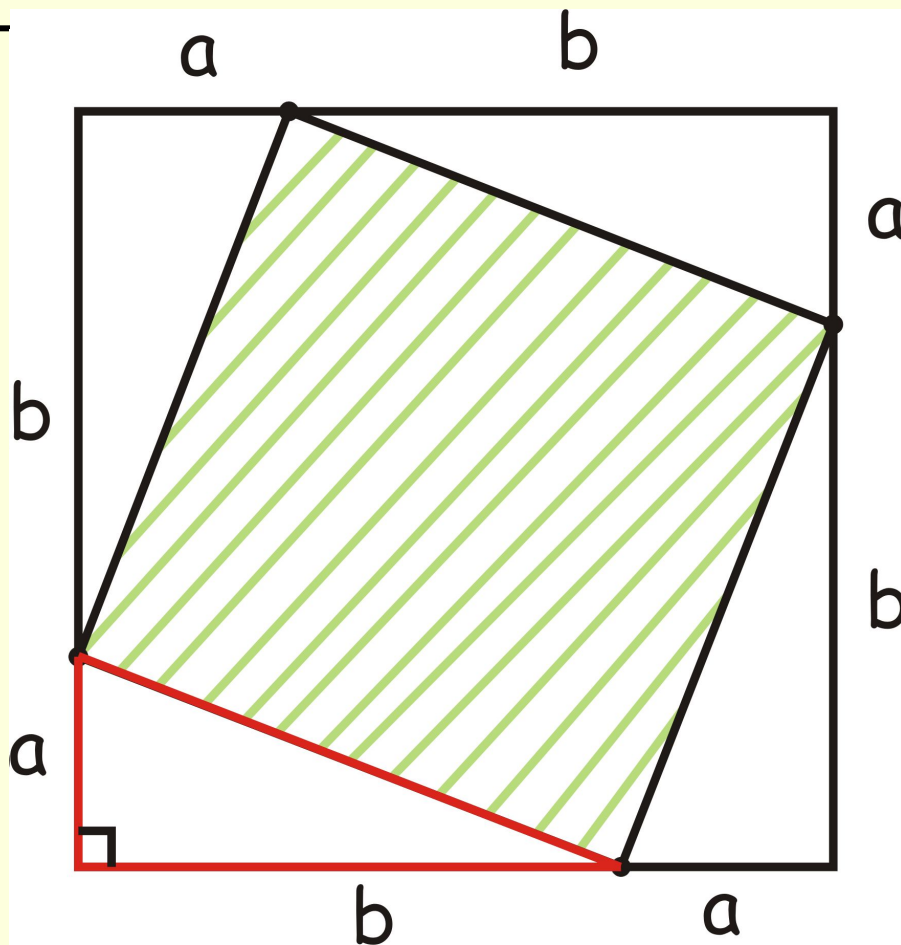
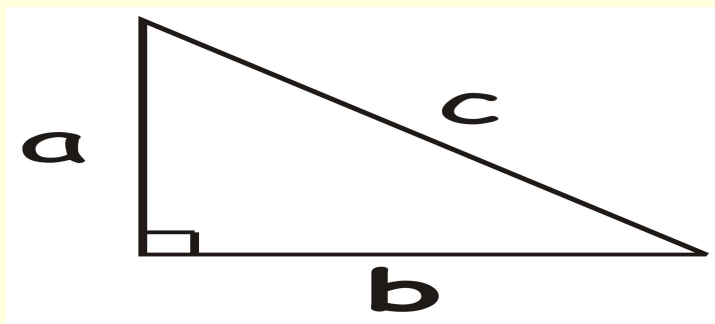
KMNP - квадрат

KMNP - ?

Теорема Пифагора



$$c^2 = a^2 + b^2$$

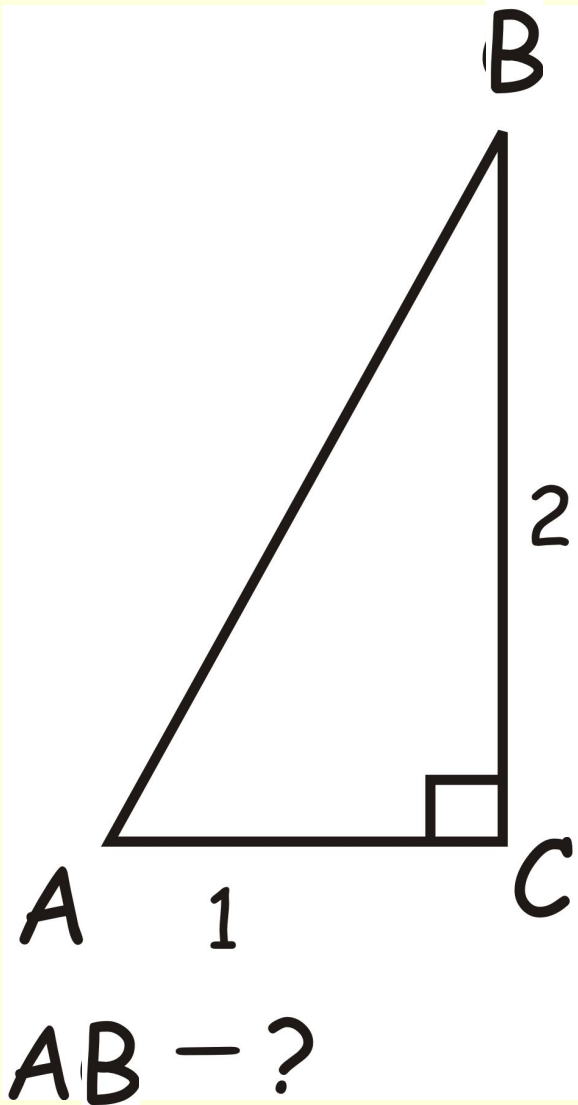


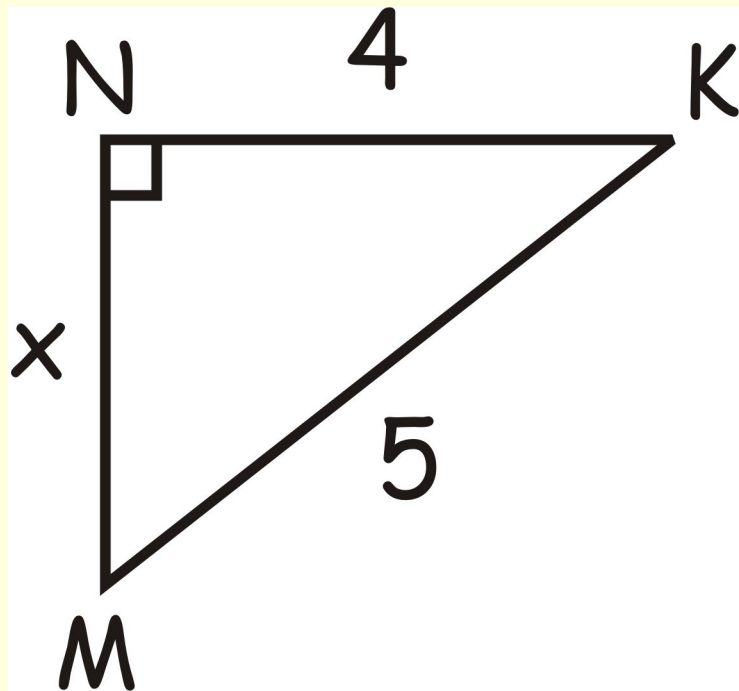
Решение:

$$(AB)^2 = 1^2 + 2^2$$

$$(AB)^2 = 5$$

$$AB = \sqrt{5}$$





MN-?

Ответ:

$$x = 3$$

Решение:

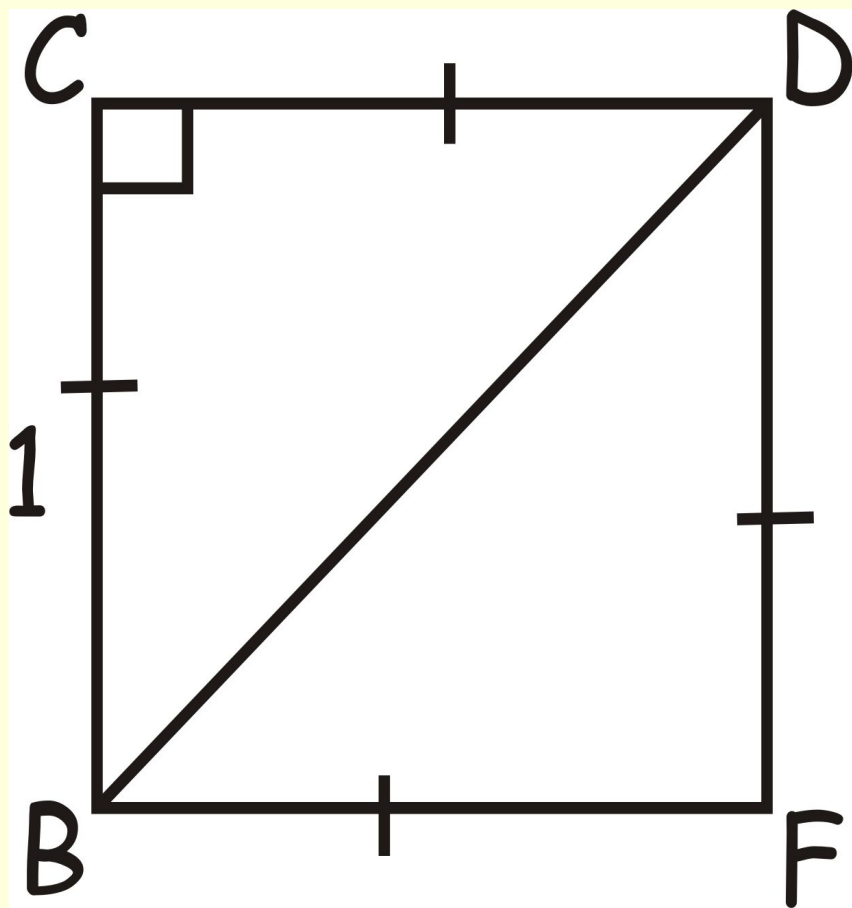
$$x^2 + 4^2 = 5^2$$

$$x^2 + 16 = 25$$

$$x^2 = 25 - 16$$

$$x^2 = 9$$

$$x = \sqrt{9}$$



$$BD = ?$$

Решение:

$$\triangle BCD : \angle C = 90^\circ ; BC = CD = 1$$

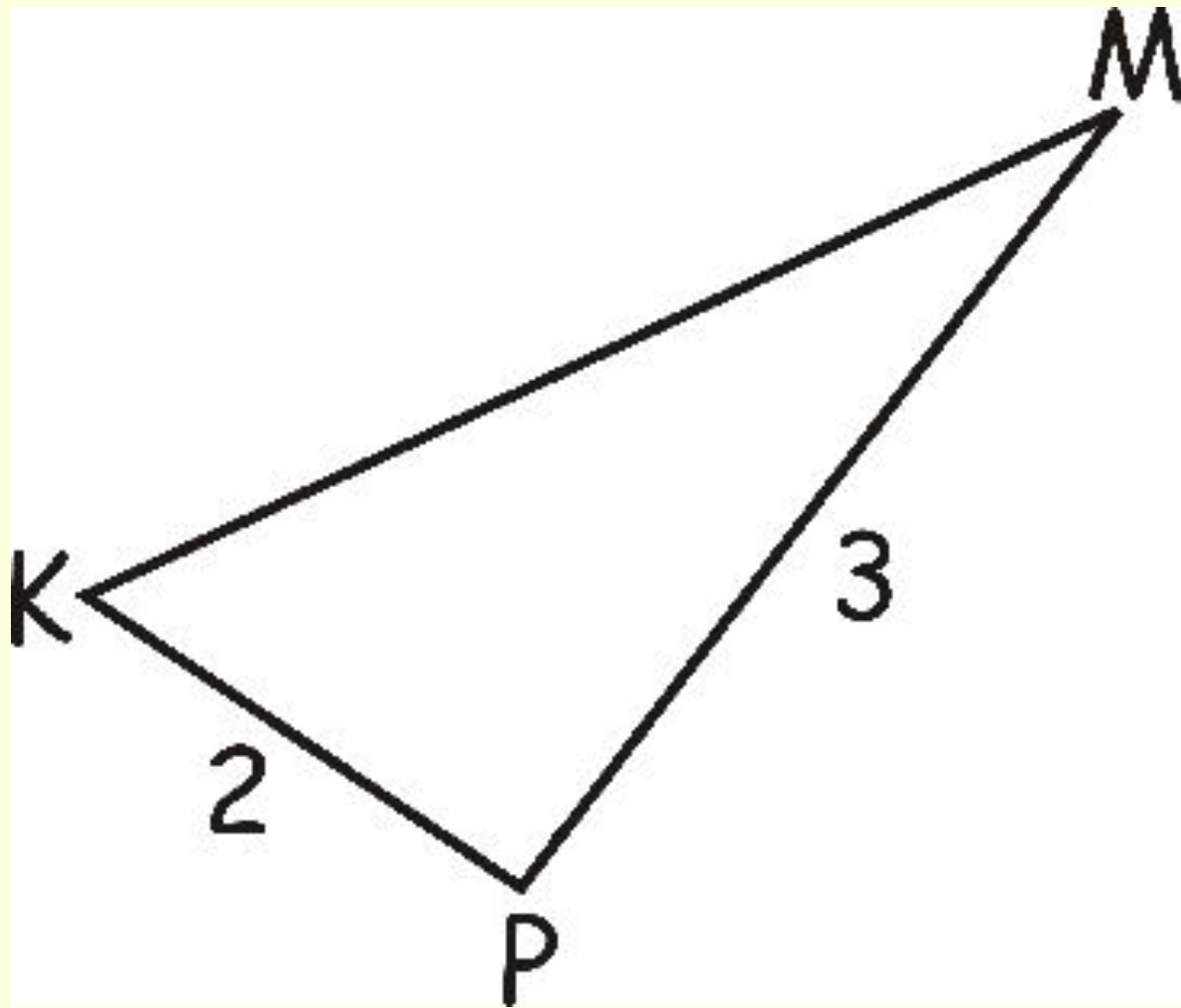
$$BD^2 = 1^2 + 1^2$$

$$BD^2 = 2$$

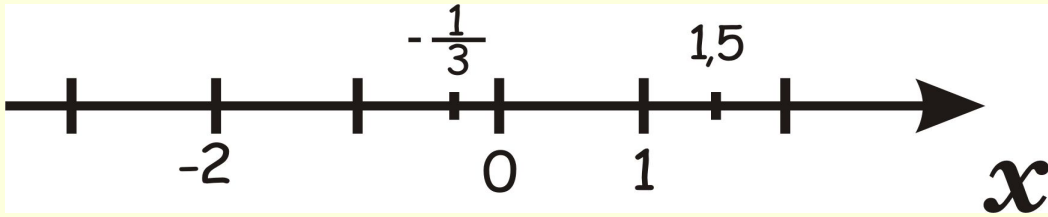
$$BD = \sqrt{2}$$

Ответ:

$$BD = \sqrt{2}$$



$$KM = ?$$



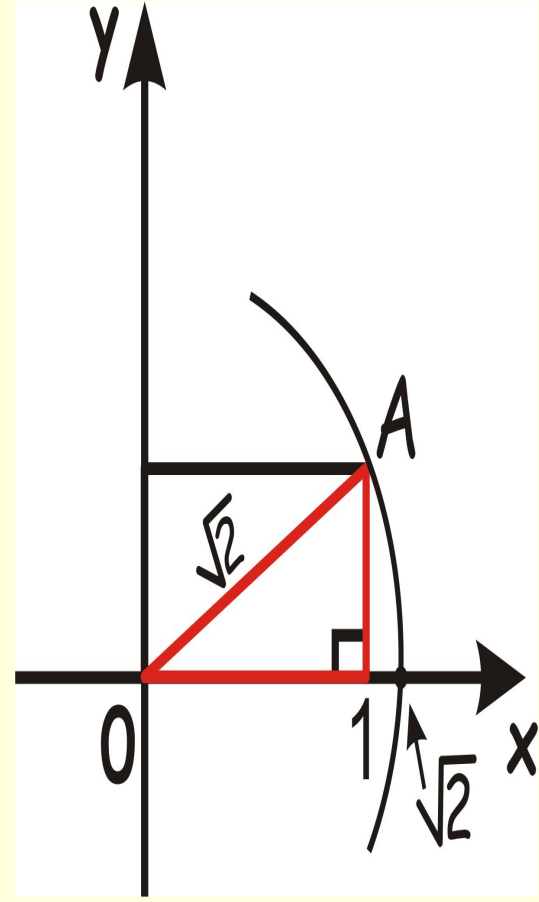
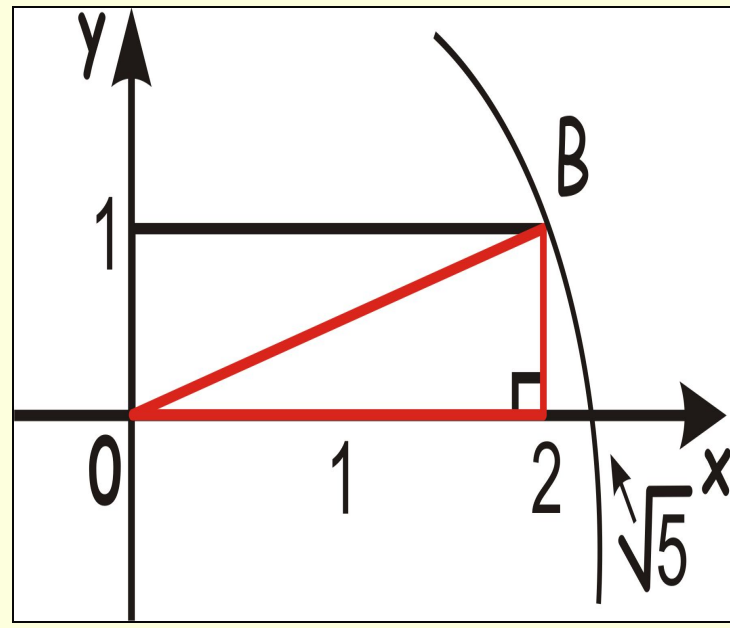
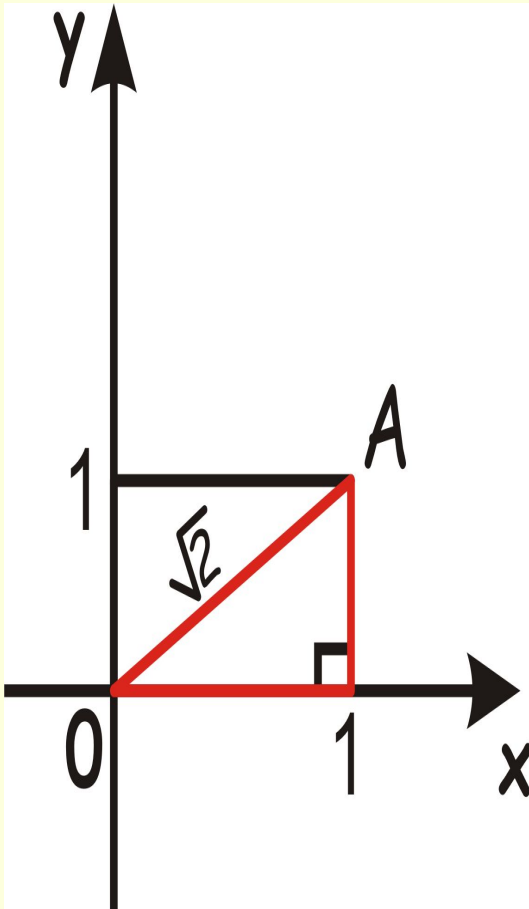
1,5

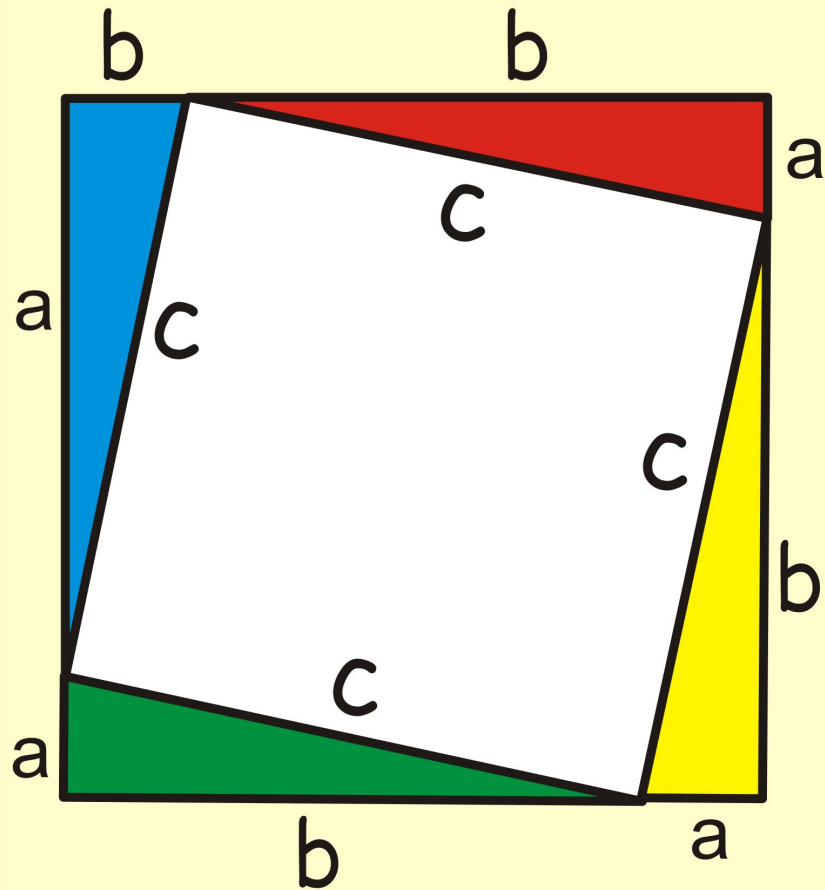
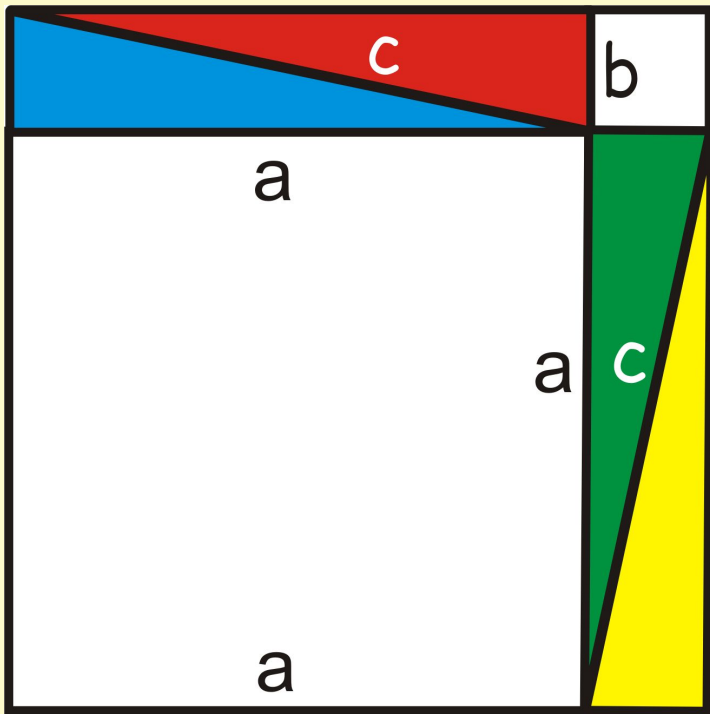
-2

$-\frac{1}{3}$

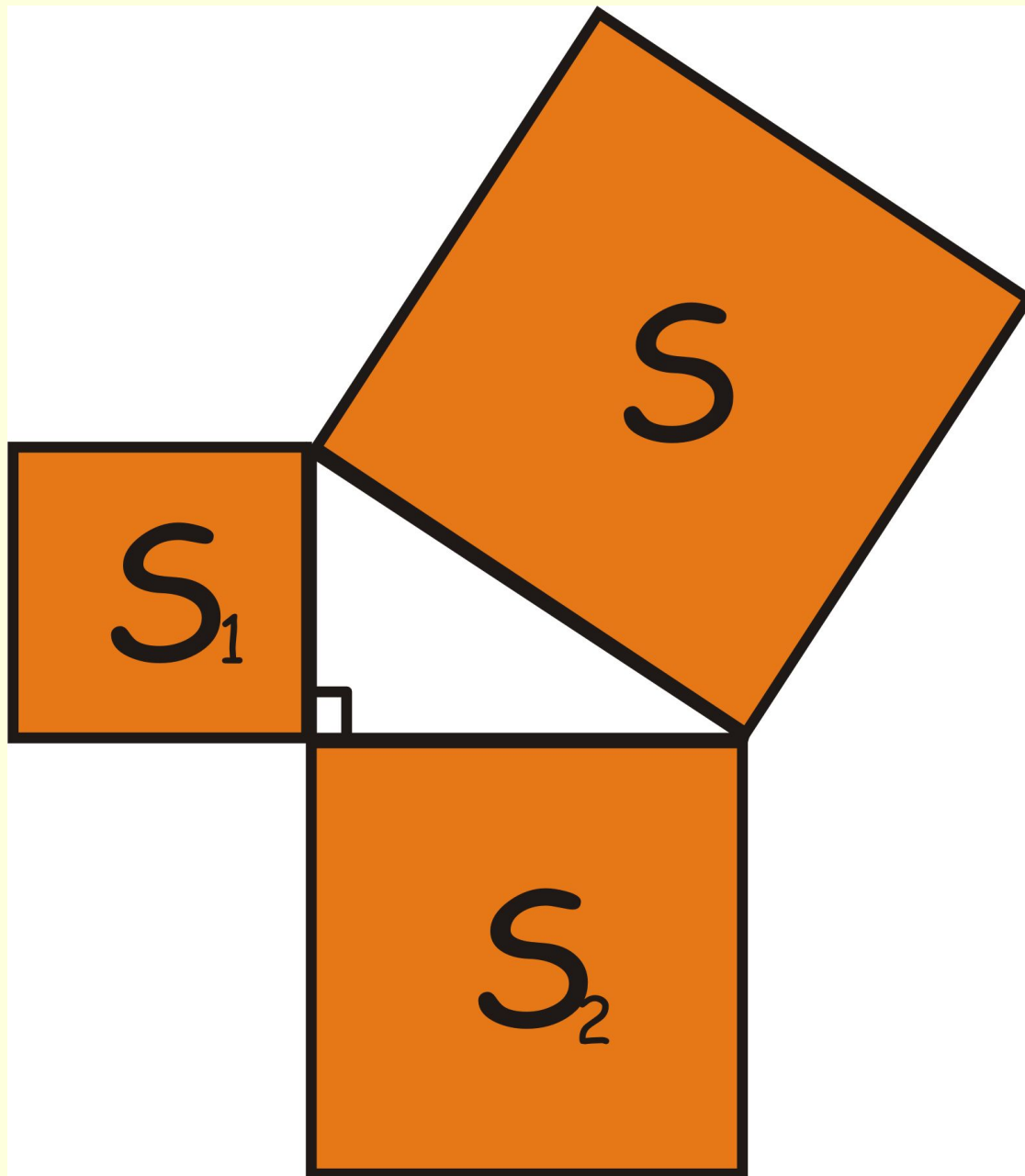
$\sqrt{2}=?$

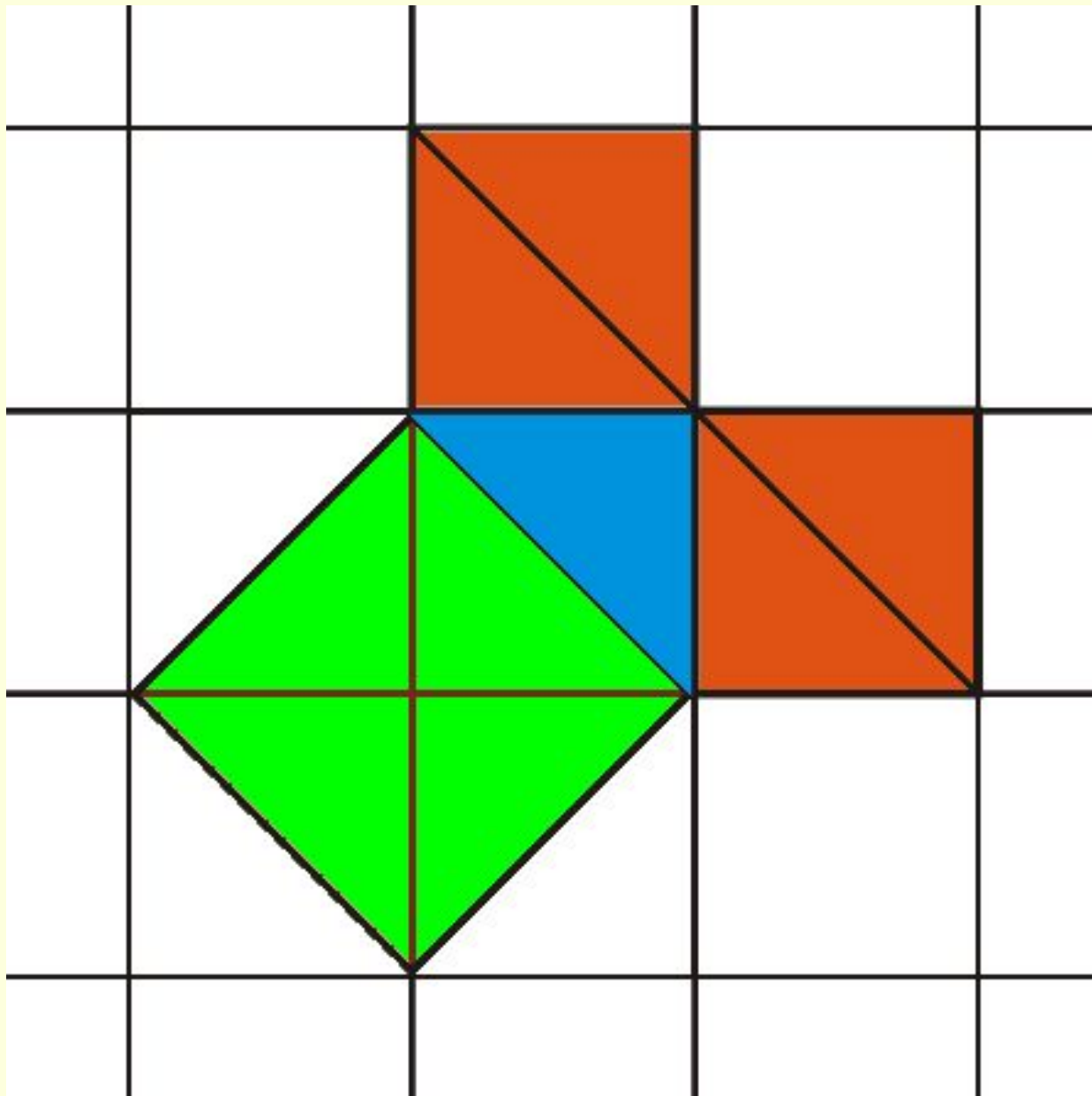
$\sqrt{2}=?$



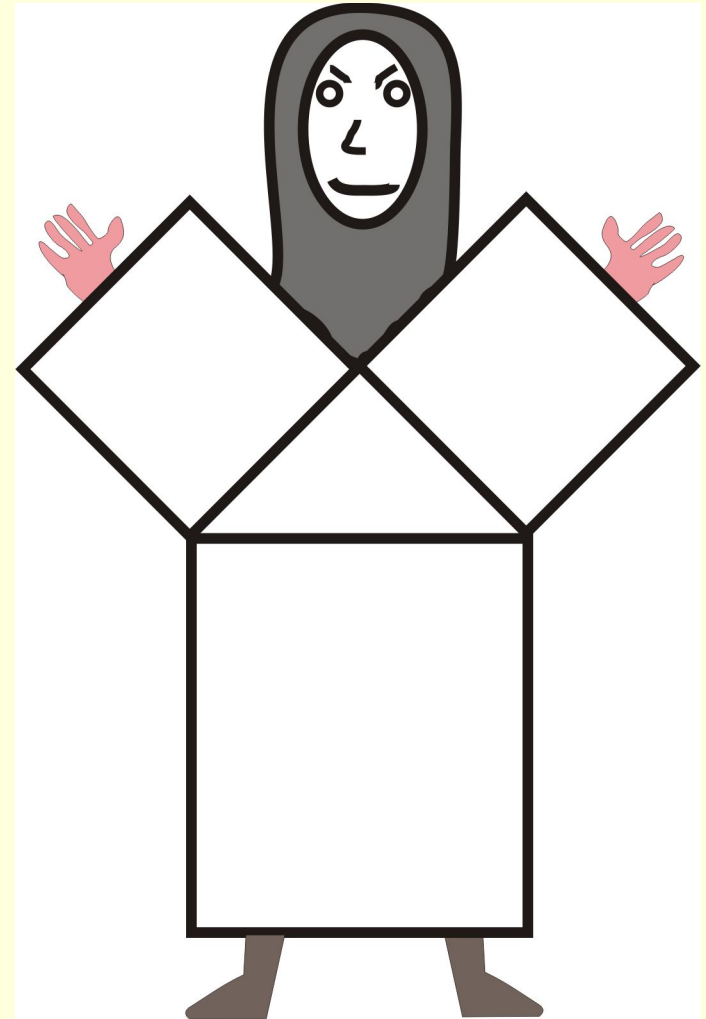
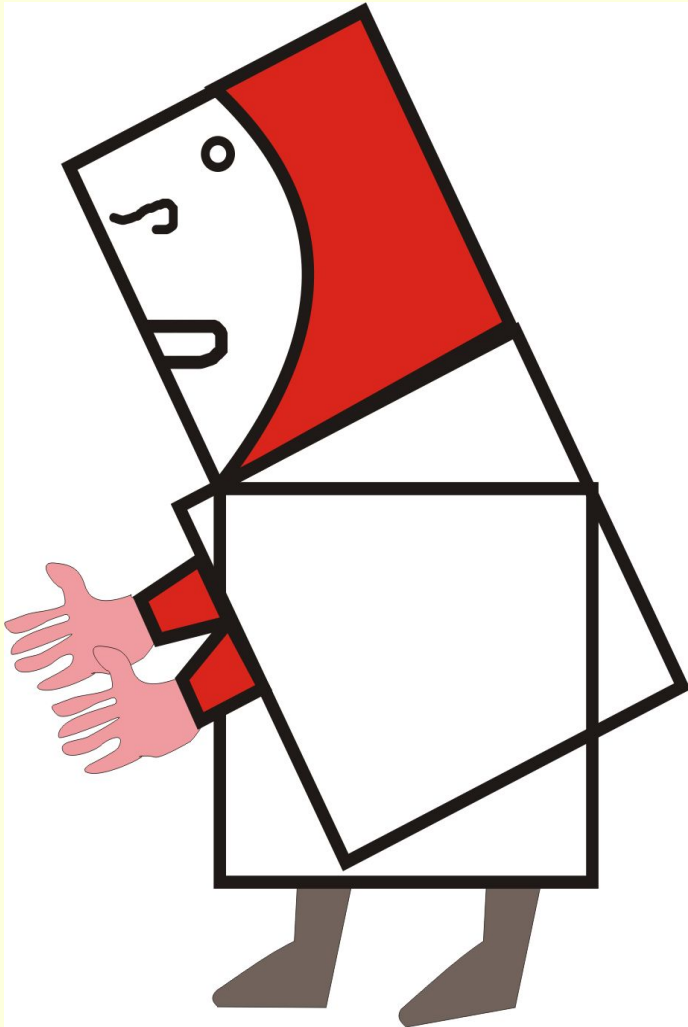


Смотри!





Пифагоровы штаны Во все стороны равны!



Спасибо

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